

## Product datasheet for MR205732

### Pex3 (NM\_019961) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Pex3 (NM_019961) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pex3
Synonyms:	1700014F15Rik; 2810027F19Rik; 2900010N04Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205732 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTGAGATCAATGTGGAATTTCTGAAACGTCACAAAAAGAAATGCATCTTCCTGGGCACAGTCCTCG  
GAGGAGTATATCCTGGGAAAATATGGACAGAAAAAATTAGAGAAATACAAGAAAGAGAAGCTGCAGA  
ATACATTGCCAAGCTCGGCACAGTACCATTTGAAAGCAACCAGAGGACTTGAATATGACAGTGCTG  
TCCATGCTGCCGACACTGAGAGAGGCCTAATGCAGCAGCTCAACTCGGAGAGTCTCACAGCTCTGTTGA  
AAAGCAGGCCTTCAAACAAGCTGGAATATGGGAGGACCTAAAGATAATAAGTTTACAAGAAGTATTGT  
AGCTGTATATAGCACGTGTATGCTGGTGGTTCTTTTGGCAGTCCAGTTAAACATAAATGGTGATATATT  
TACCTGGATAATGCAACAGTTGGCAAAAATGGCACTACCGTTCTTGTCTCCGGATGTACAGCAGCAGT  
ATTTATCAAGTATTCAACACCTCCTTGGAGACGGCCTCACAGAGTTGGTCACTGTCAATAAACAAGCTGT  
ACAAAGGATCTTAGGAAGTGTCTCTCTTAAACATTCCTTGTCCCTTTGGACTTGGAGCAAAAACTAAAA  
GAAATCAGAATCTTGTGAGCAACATCAGTCTTCTTGAATGATAAAGATGTGTCCAGGTCTTCACTGT  
GCCAGTACATGATGCCAGATGAGGAGACACCATTGGCAGCTCAGGCCTATGGGCTTCTCACAGAGATAT  
CACCACATTAACCTTCTCAATGAGACAAGAGACATGCTGGAAAGTCCAGATTTTAGTACAGTTTTGAAT  
ACCTGTCTAAACAGAGGCTTTCAGTGGCTTCTAGACAACATGGCCGAATCTTTTCGACCCACTGAGCAGG  
ACCTACAGCATGGTAACTCCATAAACAGTCTGTCCAGTGTCCAGCTGCCCTTTAGCTAAGATAATCCCAT  
AGTGAACGGGCAGATCCATTCAGTTTGCAGTGAGACACCTAGTCATTTTGTGCAGGATCTGCTGATGATG  
GAACAGGTGAAAGACTTTGCTGCTAACGTGTACGAAGCGTTTAGTACCCCAACAACACTGGAGAAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR205732 protein sequence  
 Red=Cloning site Green=Tags(s)

MLRSMWNFLKRHKKCI FLGTVLGGVYILGKYGQKKIREIQERAAEYIAQARRQYHFESNQRTCNMTVL  
 SMLPTLREALMQQLNSESLTALLKSRPSNKLEIWEDLKIISFTRSI VAVYSTCMLVLLRVQLNIIGGYI  
 YLDNATVGKNGTTVLAPPDVQQYLSSIQHLLGDGLTELVTVIKQAVQRILGSVSLKHSLSLDLLEQKLLK  
 EIRILVEQHQS SSSNDKDVSRSSLCQYMPDEETPLAAQAYGLSHRDITTIKLLNETRDMLSPDFSTVLN  
 TCLNRGFSRLLDNMAEFFRPTEQDLQHGNINSLSVSLPLAKIIPVINGQIHVSCSETPSHFVQDLLMM  
 EQVKDFAANVYEAFSTPQQLEK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_019961

**ORF Size:** 1119 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [NM\\_019961.3](#), [NP\\_064345.1](#)

**RefSeq Size:** 2303 bp

**RefSeq ORF:** 1119 bp

**Locus ID:** 56535

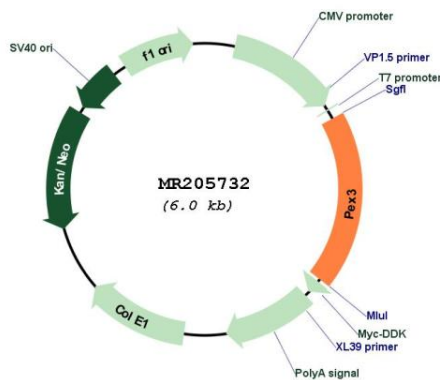
**UniProt ID:** [Q9QXY9](#)

**Cytogenetics:** 10 A2

**MW:** 42.2 kDa

**Gene Summary:** Involved in peroxisome biosynthesis and integrity. Assembles membrane vesicles before the matrix proteins are translocated. As a docking factor for PEX19, is necessary for the import of peroxisomal membrane proteins in the peroxisomes.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR205732